



Defense Logistics Information Service

MANAGING DLIS AUTOMATED INFORMATION SYSTEMS

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OVERVIEW

- **Definitions**
- **Life Cycle Management**
- **LCM Integrated Product Team**
- **The CM Process**
- **Conclusion**



Definitions

■ Life Cycle:

- All phases of the system's life including research, development, test and evaluation (RDT&E), production, deployment (inventory), operations and support (O&S), and disposal

■ Life Cycle Management:

- A management process, applied throughout the life of a system, that bases all programmatic decisions on the anticipated mission-related and economic benefits derived over the life of a system

Source: Glossary of Defense Acquisition Acronyms and Terms, Department of Defense, Defense Systems Management College,

Acquisition Policy Dept., Ft. Belvoir, VA, 8th edition, May 1997



Definitions

- **Configuration Management:**
 - **The technical and administrative direction and surveillance actions taken to identify and document the functional and physical characteristics of a configuration item (CI), to control changes to a CI and its characteristics, and to record and report change processing and implementation status. It provides a complete audit trail of decisions and design modifications**

Source: Glossary of Defense Acquisition Acronyms and Terms, Department of Defense, Defense Systems Management College, Acquisition Policy Dept., Ft. Belvoir, VA, 8th edition, May 1997



Life Cycle Management

■ Sources:

- Software Engineering Institute Capability Maturity Model Level 2 Key Process
- EIA Standard 649, National Consensus for Configuration Management
- J-STD-016, Standard for Information Technology Software Life Cycle Processes Software Development Acquirer-Supplier Agreement
- MIL-STD-973, Military Standard Configuration Management
- DoD 5000.2-R, Part 4, Mandatory Procedures for Major Defense Acquisition Programs (MDAPs) and Major Automated Information System (MAIS) Acquisition Programs
- DoD Information Technology Security Certification and Accreditation Process (DITSCAP)
- DLAR 5200.17, Security Requirements for Automated Information and Telecommunications Systems
- DLAD 4730.3, Defense Logistics Agency Automated Data Processing/Telecommunication (ADP/T) Configuration Management Program, Mar 20, 1996
- DLISI 5100.1, Mission, Organization, & Functions



Life Cycle Management

■ Need to manage and control AIS systems

- Identify items
- Identify impact
- Control changes
- Independent process





LCM Integrated Product Team

■ LCM Integrated Product Team

- Program Managers
- Software Quality Assurance
- Configuration Management
- Information Assurance
- Quality Assurance Testing
- System Change Administrator
- Contractors

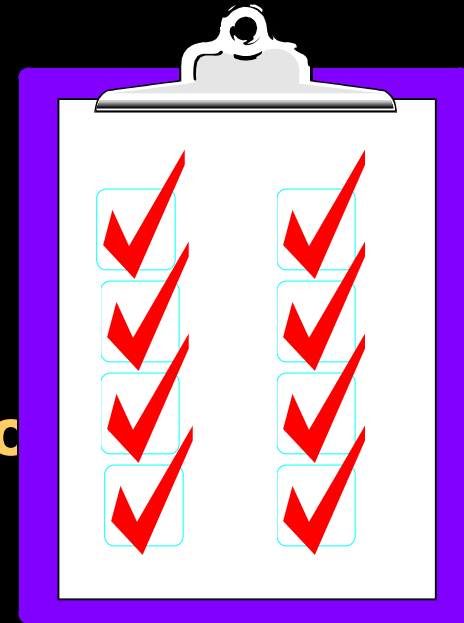




LCM Integrated Product Team

■ Program Managers

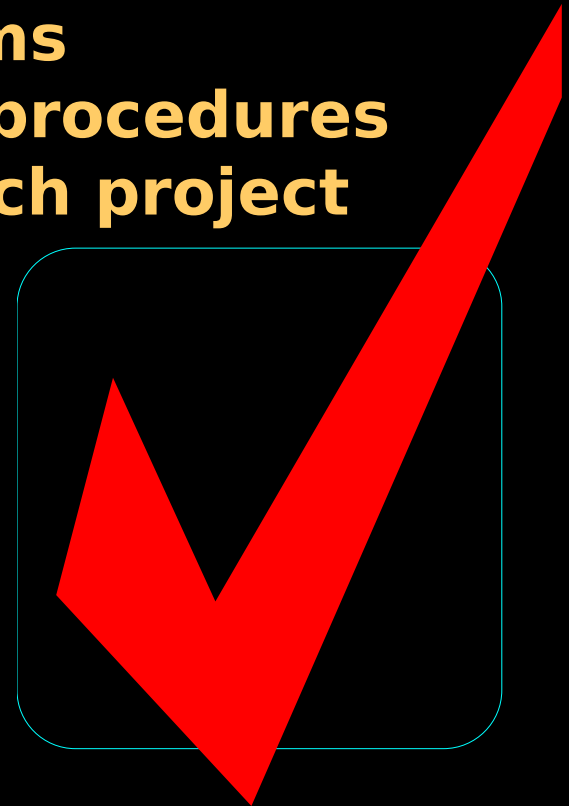
- Present concept
- Refine requirements
- Secure funding
- Coordinate project
- Hold IPRs/walkthroughs
- Provide deliverables
- Ensure acceptable milestones
- COMMUNICATES





LCM Integrated Product Team

- **Software Quality Assurance**
 - Result of SEI CMM assessment
 - Follows SEI CMM Level 2 Key Process
 - Audits configuration items
 - Enforces standards and procedures
 - Oversees life cycle of each project
 - **COMMUNICATES**





LCM Integrated Product Team

- **Configuration Management**
 - Directed by MIL-STD-973
 - Acquisition reform DoD 5000.2-R, Part 4
 - Commercial EIA Standard-649
 - Follows SEI CMM Level 2 Key Process
 - Identify, manage, control, audit configuration items
 - Automated tracking, storage and retrieval of components
 - COMMUNICATES





LCM Integrated Product Team

■ Information Assurance

- Formerly known as ADP Security
- Directed by DLAR 5200.17
- DoD Information Technology Security Certification and Accreditation Process (DITSCAP)
- Monitoring intrusion alerts/hits
- Accredits DLIS-managed systems
- Web application/data reviews
- Controls hardware/system accesses
- COMMUNICATES





LCM Integrated Product Team

■ Quality Assurance Testing

- Execution of testing
 - ♦ Assurance, integration, regression
- Coordination of testing
 - ♦ Interface testing with other systems
 - ♦ Interface testing with customers
- Test tools
- Test environment, database, repository of test data and detailed test plans
- COMMUNICATES





LCM Integrated Product Team

■ System Change Administrator

- SCR reviews/approvals
 - ♦ Federal Functional Manager
 - ♦ Coordinate with customers
- Change tracking
 - ♦ SCR, PR, TO, Special Projects
- Chair CCBs
 - ♦ Platform vs. application
 - ♦ No longer stovepiping
 - ♦ Horizontal view of all projects
- COMMUNICATES



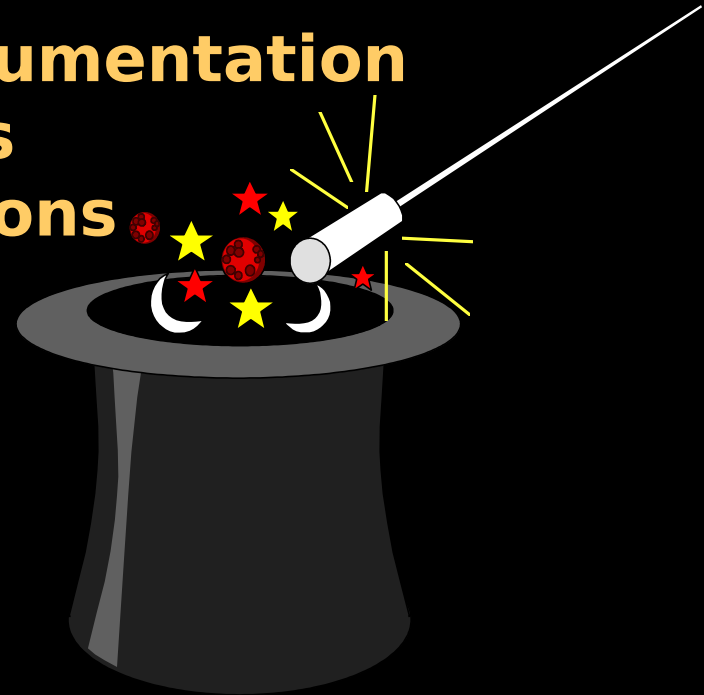
Platform CCBs



LCM Integrated Product Team

■ Contractors

- Perform according to documented requirements
- Develop J-STD-016 documentation
- Participate in meetings
- Provide recommendations
- On time within budget
- **COMMUNICATE**





The CM Process

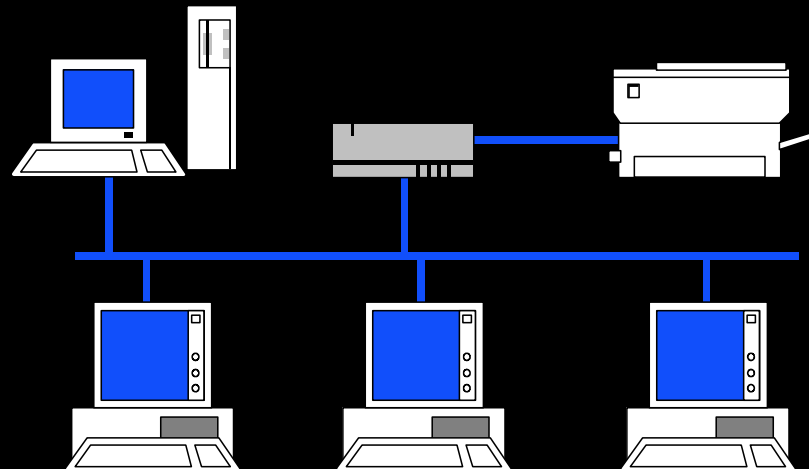
■ System development

- New

- ♦ Catalog Reengineering System
- ♦ Joint Total Asset Visibility

- Current

- ♦ Cataloging Workload Tracking
- ♦ Time and Attendance Productivity System
- ♦ MEDALS on the Web





The CM Process

Project Development Board

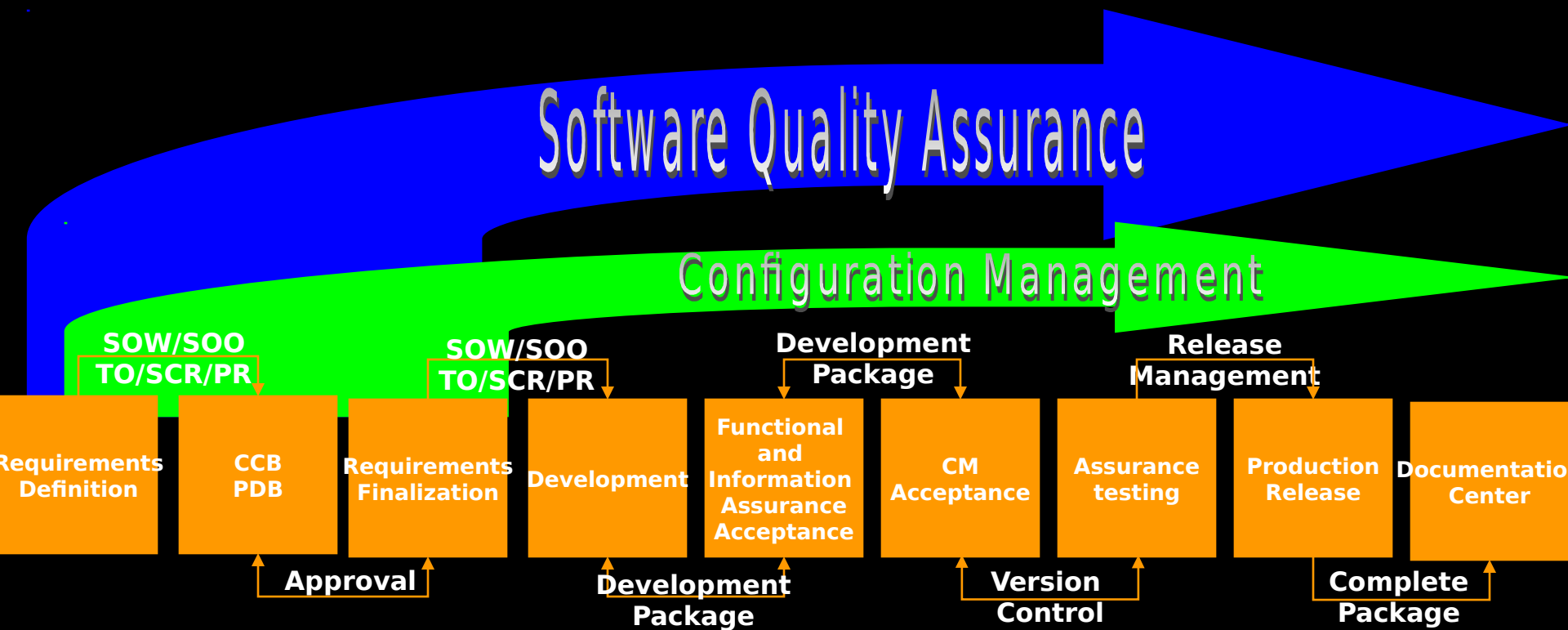
- Chartered 1995
- Chaired by CM Manager
- Voting body of Subject Matter Experts
- Ensure DLA Information Technology Architecture Guidelines compliance
- Standardizing hardware/software
- First line of acquisition approval for:
 - Hardware
 - COTS
 - New Task Orders/Statements of Work
- DLSC Form 1840
- Presentations by requestors to board
- Reduce duplication
- Monthly meetings

Change Control Board

- Chartered 1993
- Chaired by System Change Administrator
- Voting body of Subject Matter Experts and directorate representatives
- Scheduling and tracking of:
 - All software development
 - System Change Requests
 - Problem reports
 - Federal Functional Manager reviews
 - Customer Coordination
- Platform-specific CCBs
- Forum for discussions
- Coordination of actions
- Bi-weekly meetings



The CM Process

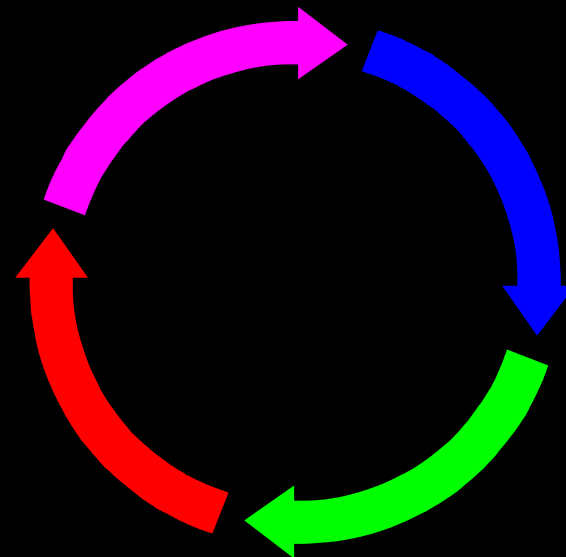




The CM Process

■ Process Improvement

- Continuous
- Identify best practices
- Develop guidelines, processes, procedures
- Directed by CMM





CONCLUSION

Building a system takes precision team work. A system is only as good as the processes that build, protect, and recover it. If no process is in place to do this in an efficient, effective manner, no guarantees can be made as to the accuracy of the system. Configuration Management provides the safety net for DLIS AISs and provides the cohesiveness to the LCM IPT.